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CLAIMS

1. (Currently Amended) A ~~method for reliably transmitting data in a packet network, the method~~ comprising:
 - receiving a plurality of data packets at an encoder associated with a first network node
 - for transmission to a decoder associated with a second network node;
 - determining an amount of loss associated with transmission between the first network node and the second network node;
 - establishing a forward error correction tunnel between the encoder and the decoder;
 - generating error correction information corresponding to the plurality of data packets, wherein the amount of error correction information generated is based at least partially upon the amount of loss and wherein the error correction information is included in a plurality of error correction packets;
 - ~~providing a plurality of error correction packets including the error correction information;~~
 - transmitting the plurality of data packets and the plurality of error correction packets to ~~the decoder, a decoder, wherein one or more forward error correction tunnels are established between the encoder and the decoder and the decoder uses error correction information to reconstruct one or more data packets if one or more data packets are not received at the decoder.~~
2. (Original) The method of claim 1, wherein the plurality of data packets are transmitted before the error correction information is generated.
3. (Original) The method of claim 2, wherein data packets are copied into a buffer and transmitted as they are received.
4. (Original) The method of claim 1, wherein the decoder is associated with a network node.
5. (Original) The method of claim 1, wherein the decoder is associated with a network end-point.
6. (Original) The method of claim 1, wherein the encoder is associated with a network node.
7. (Original) The method of claim 1, wherein the encoder is associated with a network end-point.
8. (Previously Presented) The method of claim 1, wherein the decoder and the encoder are associated with edge switches.

9. (Original) The method of claim 1, wherein Reed-Solomon encoding is used to generate error correction information.
10. (Canceled)
11. (Previously Presented) The method of claim 1, further comprising encapsulating the plurality of data packets and the plurality of error correction packets with a tunnel header.
12. (Previously Presented) The method of claim 11, wherein the tunnel header is a GRE encapsulated tunnel header.
13. (Canceled)
14. (Previously Presented) The method of claim 11, wherein the plurality of data packets and the plurality of error correction packets are associated with a session.
15. (Original) The method of claim 1, wherein the encoder provides reliability at the network layer.
16. (Original) The method of claim 1, wherein the network is a unicast network.
17. (Original) The method of claim 1, wherein the network is a multicast network.
18. (Currently Amended) A method for receiving data in a packet network, the method comprising:
receiving a plurality of data packets at a decoder network node, the plurality of data packets associated with a block identifier;
receiving a plurality of error correction packets including error correction information corresponding to the block identifier, wherein the plurality of error correction packets are received over an error correction tunnel between an encoder and the decoder, wherein the number of error correction packets received is based at least partially on the amount of loss determined for transmissions between the encoder and the decoder;
~~reconstructing one or more of the data packets using error correction information if one or more of the data packets has not been received within a set time period.~~
19. (Original) The method of claim 18; further comprising removing tunnel header information from the plurality of data packets;
20. (Original) The method of claim 18, further comprising forwarding the plurality of data packets to a network end-point.
21. (Original) The method of claim 18, wherein the error correction information is Reed-Solomon encoded.
22. (Original) The method of claim 18, further comprising setting a timer upon receiving the first of a plurality of data packets associated with the block identifier.

23. (Currently Amended) An apparatus for reliably transmitting data, the apparatus comprising:

an interface configured to receive a plurality of data packets;

a processor configured to generate error correction information corresponding to the plurality of data packets and provide a plurality of error correction packets including the error correction information;

wherein the interface is further configured to transmit the plurality of data packets and the plurality of error correction packets to a decoder, wherein the interface is configured to establish one or more forward error correction tunnels between the encoder and the decoder, wherein the number of error correction packets transmitted is based at least partially on the amount of loss determined for transmissions between the encoder and the decoder, and the decoder uses error correction information to reconstruct one or more data packets if one or more data packets are not received at the decoder.

24. (Original) The apparatus of claim 23, wherein the plurality of data packets are transmitted before the error correction information is generated.

25. (Original) The apparatus of claim 24, wherein data packets are copied into a buffer and transmitted as they are received.

26. (Currently Amended) An apparatus for reliably transmitting data in a packet network, the apparatus comprising:

means for receiving a plurality of data packets at an encoder associated with a first network node for transmission to a decoder associated with a second network node;

means for determining an amount of loss associated with transmission between the first network node and the second network node;

means for establishing a forward error correction tunnel between the encoder and the decoder;

means for generating error correction information corresponding to the plurality of data packets, wherein the amount of error correction information generated is based at least partially upon the amount of loss and wherein the error correction information is included in a plurality of error correction packets;

mean for providing a plurality of error correction packets including the error correction information;

means for transmitting the plurality of data packets and the plurality of error correction packets to the decoder, a decoder, wherein one or more forward error correction tunnels are established between the encoder and the decoder and the decoder uses error correction

~~information to reconstruct one or more data packets if one or more data packets are not received at the decoder.~~

27. (Original) The apparatus of claim 26, wherein the plurality of data packets are transmitted before the error correction information is generated.

28. (Original) The apparatus of claim 27, wherein data packets are copied into a buffer and transmitted as they are received.